APPENDIX

1. An improved distributed Bragg reflector comprising:

a sampled grating, including a plurality of sampled grating portions having a first grating phase separated from each other by portions with no grating; and

a first grating burst portion, at a beginning of a first one of the sampled grating portions, having a second grating phase, wherein the second grating phase is different from the first grating phase.

2. The reflector of claim 1, wherein the second grating phase is substantially opposite that of first grating phase.

3. The reflector of claim 1, wherein the first sampled grating portion and the first grating burst portion are spaced apart and configured such that maximum values for a coupling constant (κ) are substantially uniform across a selected tuning range.

4-10. (CANCELLED)

11. The reflector of claim 1, wherein the portions with no grating occupy more than 70% of the reflector.

12. The reflector of claim 1, wherein the first grating burst portion is spaced apart from the first one of the sampled grating portions by a spacing with no grating.

13-16. (CANCELLED)

17. A distributed Bragg reflector comprising:

a sampled grating, including a plurality of sampled grating portions separated from each other by portions with no grating;

wherein the sampled grating portions each have a first grating phase and a second grating phase.

18. The reflector of claim 17, wherein the portions with no grating occupy more than 70% of the reflector.

19. The reflector of claim 17, wherein the sampled grating portions reverse their grating phase at a beginning and an end of each sampled grating portion.

20-29. (CANCELLED)